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dynamic encryption balance security speed

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1 [Strategic directions in electronic commerce and digital libraries: towards a digital agora](#)

Nabil Adam, Yelena Yesha

December 1996 ACM Computing Surveys (CSUR). Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (244.34 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 194, Citation Count: 14

2 [Money in electronic commerce: digital cash, electronic fund transfer, and Ecash](#)

Patiwat Panurach

June 1996 Communications of the ACM. Volume 39 Issue 6

Publisher: ACM

Full text available: Pdf (551.73 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#),
[review](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 342, Citation Count: 10

3 [Security in embedded systems: Design challenges](#)

Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady

August 2004 ACM Transactions on Embedded Computing Systems (TECS). Volume 3 Issue 3

Publisher: ACM

Full text available: Pdf (3.67 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 130, Downloads (12 Months): 1046, Citation Count: 13

Many modern electronic systems---including personal computers, PDAs, cell phones, network ro smart cards, and networked sensors to name a few---need to access, store, manipulate, or com sensitive information, making security a serious concern ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorith decryption, encryption, hardware design, processing requirements, security, security attacks, se protocols, tamper resistance

4 [Communications of the ACM: Volume 51 Issue 4](#)



April 2008 issue Volume 51 Issue 4

Publisher: ACM

Full text available: Digital Edition , Pdf (4.24 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 385, Downloads (12 Months): 1953, Citation Count: 0

5 Raksha: a flexible information flow architecture for software security



Michael Dalton, Hari Kannan, Christos Kozyrakis

June 2007 ACM SIGARCH Computer Architecture News, Volume 35 Issue 2

Publisher: ACM

Full text available: Pdf (300.74 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 326, Citation Count: 4

High-level semantic vulnerabilities such as SQL injection and crosssite scripting have surpassed overflows as the most prevalent security exploits. The breadth and diversity of software vulnerability demand new security solutions that combine ...

Keywords: dynamic, semantic vulnerabilities, software security

6 Raksha: a flexible information flow architecture for software security



Michael Dalton, Hari Kannan, Christos Kozyrakis

June 2007 I SCA '07: Proceedings of the 34th annual international symposium on Computer archi

Publisher: ACM

Full text available: Pdf (300.74 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 326, Citation Count: 4

High-level semantic vulnerabilities such as SQL injection and crosssite scripting have surpassed overflows as the most prevalent security exploits. The breadth and diversity of software vulnerability demand new security solutions that combine ...

Keywords: dynamic, semantic vulnerabilities, software security

7 Application of e-commerce security management strategy in banking



Guoling Lao, Liping Wang

August 2005 I CEC '05: Proceedings of the 7th international conference on Electronic commerce

Publisher: ACM

Full text available: Pdf (331.36 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 397, Citation Count: 0

Today, e-commerce has achieved wide applications with its carrier network and information technology rapid developments. But various security problems set up a lot of barriers for its further progress security becomes a bottleneck. Unless these ...

Keywords: bank, e-commerce, risk, security management strategy

8 GPGPU: general purpose computation on graphics hardware




David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aa

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:

 Pdf (63.03 MB)

Additional Information: full citation, abstract, cited by



Bibliometrics: Downloads (6 Weeks): 171, Downloads (12 Months): 1419, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely and flexible processor. The latest graphics architectures provide tremendous memory bandwidth computational horsepower, with fully programmable vertex ...

9 [Communications of the ACM: Volume 51 Issue 1](#)

January 2008 issue Volume 51 Issue 1

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.97 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 533, Downloads (12 Months): 3921, Citation Count: 0

10 [The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle](#)

August 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue

Publisher: ACM

Full text available:  Pdf (418.73 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 107, Citation Count: 7

Ensemble is a Group Communication System built at Cornell and the Hebrew universities. It also processes to create *process groups* within which scalable reliable fifo-ordered multicast and point-to-point communication are supported. The system ...

Keywords: Group communication, security

11 [Communications of the ACM: Volume 51 Issue 2](#)

February 2008 issue Volume 51 Issue 2

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (3.89 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 316, Downloads (12 Months): 2233, Citation Count: 0

12 [Computing curricula 2001](#)

CORPORATE The Joint Task Force on Computing Curricula

September 2001 Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 3es

Publisher: ACM

Full text available:  Html (2.78 KB),  Pdf (613.63 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 131, Downloads (12 Months): 1547, Citation Count: 23

13 [Multi-level secure video streaming over SRTTP](#)

Lei Chen, Chung-wei Lee

March 2005 ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - V

Volume 2

Publisher: ACM


Full text available:  Pdf (474.22 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 100, Citation Count: 0

In this paper, we propose a set of solutions to four different levels on data selection for encrypting JPEG video frames over SRTP. These solutions are based on our intensive analysis of the JPEG compression procedure. We select the most ...

Keywords: AES, DCT, SRTP, jpeg, motion jpeg, quantization

14 Cryptography as an operating system service: A case study

 Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside

February 2006 ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 1

Publisher: ACM

Full text available:  Pdf (669.12 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 749, Citation Count: 0

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However, no operating system provided a mechanism that allowed ...

Keywords: Encryption, authentication, cryptographic protocols, digital signatures, hash functions

15 Secure and practical defense against code-injection attacks using software dynamic translation

 Wei Hu, Jason Hiser, Dan Williams, Adrian Filipi, Jack W. Davidson, David Evans, John C. Knight, An Nguyen-Tuong, Jonathan Rowanhill

June 2006 VEE '06: Proceedings of the 2nd international conference on Virtual execution environments

Publisher: ACM

Full text available:  Pdf (270.13 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 138, Citation Count: 2

One of the most common forms of security attacks involves exploiting a vulnerability to inject malicious code into an executing application and then cause the injected code to be executed. A theoretical approach to defending against any type ...

Keywords: software dynamic translation, virtual execution

16 Proceedings of the 2005 symposium on Usable privacy and security

 Lorrie Faith Cranor

July 2005 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the Symposium On Usable Privacy and Security! This inaugural event brings together an interdisciplinary group of researchers and practitioners in human computer interaction, security, privacy. While papers on usable privacy and security ...

17 Verifying Completeness of Relational Query Answers from Online Servers



Hweehwa Pang, Kian-Lee Tan

March 2008 ACM Transactions on Information and System Security (TISSEC), Volume 11 Issue

Publisher: ACM

Full text available: Pdf (991.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 273, Citation Count: 0

The number of successful attacks on the Internet shows that it is very difficult to guarantee the online servers over extended periods of time. A breached server that is not detected in time may give incorrect query answers to users. In ...

Keywords: query answer verification, secure database systems

18 [An application-driven perspective on wireless sensor network security](#)



Eric Sabbah, Adnan Majeed, Kyoung-Don Kang, Ke Liu, Nael Abu-Ghazaleh

October 2006 Q2SWinet '06: Proceedings of the 2nd ACM international workshop on Quality of service security for wireless and mobile networks

Publisher: ACM

Full text available: Pdf (206.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 526, Citation Count: 0

Wireless sensor networks (WSNs) have recently attracted a lot of interest due to the range of applications they enable. Unfortunately, WSNs are exposed to numerous security threats that can adversely affect the success of important applications. Securing ...

Keywords: application-driven perspective, security, sensor networks

19 [On the performance of group key agreement protocols](#)



Yair Amir, Yongdae Kim, Cristina Nita-Rotaru, Gene Tsudik

August 2004 ACM Transactions on Information and System Security (TISSEC), Volume 7 Issue

Publisher: ACM

Full text available: Pdf (469.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 155, Citation Count: 6

Group key agreement is a fundamental building block for secure peer group communication systems. Several group key management techniques were proposed in the last decade, all assuming the existence of an underlying group communication infrastructure ...

Keywords: Group Communication, Group Key Management, Peer Groups, Secure Communication

20 [Access control in publish/subscribe systems](#)



Jean Bacon, David M. Eysers, Jatinder Singh, Peter R. Pietzuch

July 2008 DEBS '08: Proceedings of the second international conference on Distributed event-based systems

Publisher: ACM

Full text available: Pdf (1.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 125, Citation Count: 0





Two convincing paradigms have emerged for achieving scalability in widely distributed systems: *publish/subscribe communication* and *role-based, policy-driven control of access to the system*. A strength of publish/subscribe ...

Keywords: encryption, publish/subscribe, role based access control

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